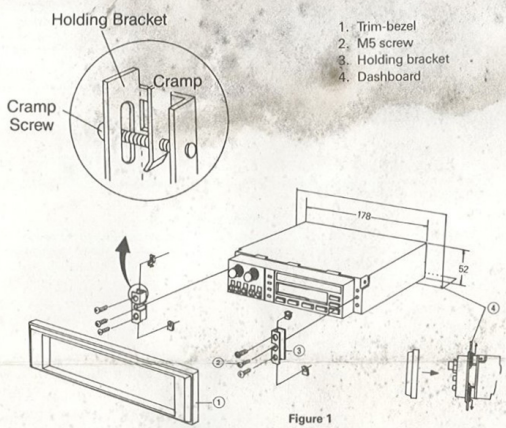
INSTALLATION

Unit In-Dash Installation

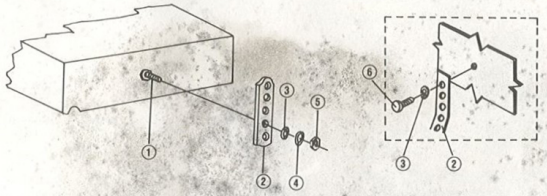
- Attach the two holding brackets to the right and left sides of the radio front chassis as show in figure 1.
- Dashboard must have an operating 178×52mm.
- Insert the radio through the dashboard opening as far as it can go.
- Adjust the cramp screws of the holding brackets (figure 1) so that the edge of the dashboard opening can be inserted between the holding brackets and the cramp plate.
- Move the four cramp plates (enlarged view of figure 1) outward, so that they will engage behind the dashboard opening.
- Set the trim-bezel (#1 of figure 1) onto the radio front and carefully snap it on.



1. Trim-bezel
2. M5 screw
3. Holding bracket
4. Dashboard

Figure 1

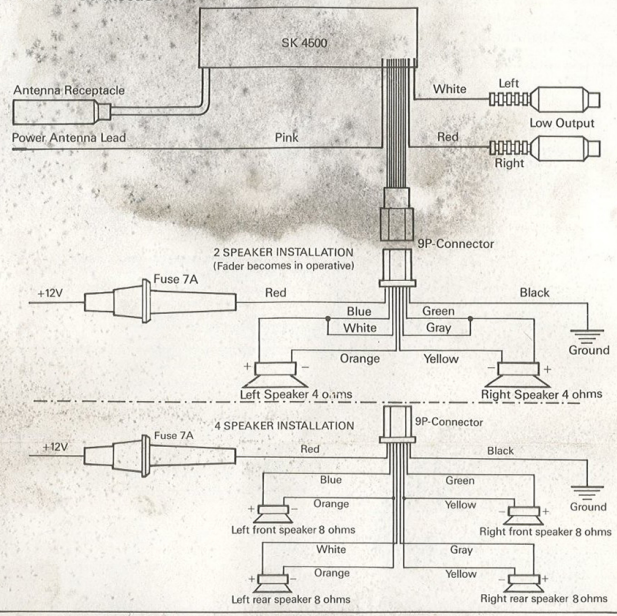
- Secure one end of the mounting strap to the rear of the unit (figure 2), then other end to a suitable position on the fire wall.



1. Screw
2. Rear support strap
3. Flat washer
4. Lock-washer
5. Nut
6. Self-tapping screw

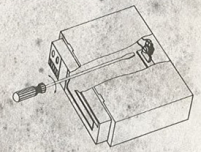
Figure 2

Electrical Connection



Antenna Trimmer Adjustment (applies to AM only)

- When the installation is completed, turn on the radio and tune in a weak AM station near the top of the AM band.
- Using a fine blade screwdriver of the appropriate length reach, through the cassette door, to the antenna trimmer capacitor (see figure).
- Gently and slowly turn the tirmmer screw-head clockwise or counterclockwise, in the same way as you fine tune a station on the dial, until the maximum sensitivity is attained.



Operating Instructions

Car Radio with Car Stereo
SK4500

SUNKYONG

Before operating this set, please read these instructions completely

Specifications

Type	:	Auto Reverse Cassette Tape Player with AM/FM/MPX Radio
TAPE Section		
Track System	:	4 Track Stereo
Tape Speed	:	4.75 cm/sec.
Wow and Flutter	:	Less than 0.35%
S/N	:	45 dB
Separation	:	35 dB
AM Section		
Frequency Range	:	535 ~ 1,605 kHz
Maximum Sensitivity	:	6μV
S/N	:	45 dB
Image Rejection	:	60 dB

FM Section		
Frequency Range	:	88 ~ 108 MHz
−3 dB limiting	:	1.5μV
Sensitivity for 30 dB S/N	:	Less than 4μV
S/N	:	58 dB
Image Rejection	:	50 dB
Selectivity	:	75 dB
AM Rejection	:	50 dB
Stereo Separation	:	30 dB
General		
Output Power	:	2×25W Max. into 4 ohms
Power Supply	:	12V DC (11 ~ 16V DC)
Current Draw	:	Less than 7A
Polarity	:	Negative Ground
Dimensions	:	52(H)×130(D)×178(W)mm
Weight	:	1.4Kg (3.0 lb)

Specifications subject to change for improvement without notice.

Printed in Korea

Operation of Controls

FADER CONTROL
Turn the knob clockwise or counterclockwise to regulate the distribution of sound level between front and rear speakers.

TUNING CONTROL
Turn to a desired AM or FM station.

CASSETTE DOOR
Pushing the cassette at the center, with the side where the tape is visible toward the right, insert it into the cassette door till it is securely locked.
NOTE: Insertion of the cassette with the radio on will result in an automatic changeover to tape playing.

STOP/EJECT CONTROL
Press this button to stop and eject cassette and change into radio.

AM INDICATOR
L.E.D will illuminate to indicate the reception is on AM band.

STEREO SELECTOR
Push it for Stereo reception, release for Mono.

POWER ON OFF/VOLUME CONTROL
Turn clockwise to turn the unit on. Further turn to increase volume.

FM INDICATOR
L.E.D will illuminate to indicate the reception is on FM band.

PROGRAM CONTROL
To reverse the tape at anytime, push this button.

MUTE CONTROL
Push the button to attenuate back-ground noise when tuning FM station.

BALANCE CONTROL
Turn the knob to adjust volume of left and right speakers.

AM/FM SELECTOR
Select either AM or FM with this button.

POWER INDICATOR
This indicator illuminates while the unit is on.

FAST FORWARD/REWIND CONTROLS
For quick winding the cassette tape in either direction, press ◀◀ or ▶▶ button. To stop fast forward, slightly push the rewind button; to stop rewind, slightly push the fast forward button.

TAPE DIRECTION INDICATORS
As soon as the cassette is inserted into the mechanism, one of the tape direction lights will illuminate and the tape will automatically begin playing.

EQUALIZER CONTROLS
The five controls allow adjustment of the audio spectrum.

STEREO INDICATOR
The indicator lights when in FM stereo.

Notes on Cassette Tape

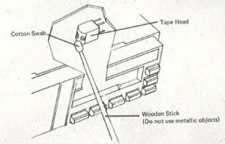
To obtain optimum performance from your unit, these helpful hints should be remembered:

- We strongly recommend not using cassette tapes longer than 90 minutes (C-90), such as C-120 and C-180, unless absolutely necessary.
- Should the cassette tape develop a slack (arrow 1), tighten the tape tension by lightly turning the hub of the cassette tape (arrow 2) with an ordinary pencil before inserting the cassette tape into the **CASSETTE DOOR**.
- In the event that the music title label starts to peel off from the cassette tape case, be sure to take it off completely or repaste it before inserting to the unit.
- Avoid touching or soiling surfaces of the cassette tapes.
- Keep the cassette tape away from any magnetized object (i.e. motor, speaker, transformer, etc.).
- Avoid placing the cassette tape direct to sunlight or near any heated object. Heat has an adverse effect on the cassette tape.
- When storing the cassette tape, keep it in a case with the opening (exposed tape side) facing down in order to prevent dust from entering the cassette tape Keep it in a cool dry place.

Maintenance

Tape Head Cleaning

To obtain optimum performance, clean the tape head as often as necessary, depending upon frequency of use and tape cleanliness. The tape head in the cassette car stereo mechanism may accumulate dust and tape residue, causing poor or wavering sound.



To clean the tape head, open the **CASSETTE DOOR** and clean the residue from the head with a cotton swab dampened in isopropyl alcohol.
CAUTION: Do not use any solution other than alcohol for head cleaning.

Cleaning the Outside

To clean the outside of the set (escutcheon and chassis), wipe off dust with a soft cloth.
Never use benzine, thinner or any other type of solvents.

Fuse

Be sure to use a fuse of specified rating (7A) when replacing a blown fuse.
Fuses rated at higher capacity, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.
If the replacement fuse fails, contact your nearest shop.

Precautions

VOLUME LEVEL

For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

CAR VENTILATION

If your car is parked for several hours in direct sunlight, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

CAR WASHING

Do not expose this equipment (including the speakers and tape) to water or excessive moisture to avoid electrical shorts which may cause fire, or other damage.

TAPE MECHANISM

Keep magnets, screwdrivers and other metallic objects away from the tape mechanism and tape head.

POWER SUPPLY

This equipment is designed to be used only in a 12 volt, DC battery system (car) with negative ground.

Basic Noise Suppression Methods

Proper grounding is one of the most important items. The contact of the tapping screws only is not sufficient. Remove the paint under the holder of the capacitor and apply contact grease. The noise suppression can then be performed as follows:

1. Ignition Coil: (Fig. 1)
The ignition coil has to be provided with a 2,2 MF parallel capacitor at the terminal (+). If the ignition coil is attached to the car body (e.g. cowling), the capacitor has to be connected to the engine block by means of a short grounding band.

Fig. 1

2. Alternator: (Fig. 2)
Connect a 2,2 MF parallel capacitor to the terminal "B+". The attachment lug of the capacitor should be connected with the alternator case.

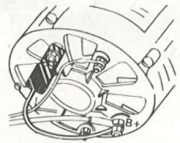


Fig. 2

3. Engine Hood: (Fig. 3)
A grounding band has to be connected between the engine hood and the car body. Remove the paint under the grounding band completely. The grounding band is used to avoid interferences (engine noise) that are transferred from the engine compartment via the antenna into the radio.

Fig. 3

4. Distributor: (Fig. 4)
Put a noise-suppression resistor (1 to 10kΩ) between the center jack of the distributor and its plug.

If the above basic noise suppression methods are performed correctly, but still interferences are audible, please contact your nearest service station.

Fig. 4